US ERA ARCHIVE DOCUMENT



10/16/2009 Mr. Doug Lam Trihydro Corporation 5000 State Route 128

Cleves OH 45002

Project Name: Hooven VI 2008-2009

Project #: 500-017-012 Workorder #: 0910198B

Dear Mr. Doug Lam

The following report includes the data for the above referenced project for sample(s) received on 10/7/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Bryanna Langley Project Manager

Bujanna Lanefey



WORK ORDER #: 0910198B

Work Order Summary

CLIENT: Mr. Doug Lam BILL TO: Mr. Paul Michalski

Trihydro Corporation Trihydro Corporation 5000 State Route 128 5000 State Route 128 Cleves, OH 45002 Cleves, OH 45002

PHONE: 513-353-1323 ext 23 **P.O.**# 08-050WO-L

FAX: 513-353-4664 PROJECT # 500-017-012 Hooven VI 2008-2009

DATE RECEIVED: 10/07/2009 **CONTACT:** Bryanna Langley **DATE COMPLETED:** 10/16/2009

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	VW99(5A)100209	Modified ASTM D-1946	4.0 "Hg	15 psi
02A	VW99(10)100209	Modified ASTM D-1946	3.0 "Hg	15 psi
02AA	VW99(10)100209 Lab Duplicate	Modified ASTM D-1946	3.0 "Hg	15 psi
03A	VW99(15)100209	Modified ASTM D-1946	4.0 "Hg	15 psi
04A	VW99(20)100209	Modified ASTM D-1946	4.0 "Hg	15 psi
05A	VW99(25)100209	Modified ASTM D-1946	3.5 "Hg	15 psi
06A	VW99(30)100209	Modified ASTM D-1946	5.0 "Hg	15 psi
07A	VW99(35)100209	Modified ASTM D-1946	3.0 "Hg	15 psi
08A	VW99(40)100209	Modified ASTM D-1946	4.5 "Hg	15 psi
09A	VW99(45)100209	Modified ASTM D-1946	4.0 "Hg	15 psi
10A	BD1100209	Modified ASTM D-1946	6.0 "Hg	15 psi
11A	VW96(50)100209	Modified ASTM D-1946	3.5 "Hg	15 psi
12A	VW96(55)100209	Modified ASTM D-1946	3.5 "Hg	15 psi
13A	VW96(60)100209	Modified ASTM D-1946	3.5 "Hg	15 psi
14A	VW99(50)100209	Modified ASTM D-1946	3.0 "Hg	15 psi
15A	VW99(55)100209	Modified ASTM D-1946	5.0 "Hg	15 psi
15AA	VW99(55)100209 Lab Duplicate	Modified ASTM D-1946	5.0 "Hg	15 psi

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WORK ORDER #: 0910198B

Work Order Summary

CLIENT: Mr. Doug Lam BILL TO: Mr. Paul Michalski

Trihydro Corporation
5000 State Route 128
Cleves, OH 45002

Trihydro Corporation
5000 State Route 128
Cleves, OH 45002

PHONE: 513-353-1323 ext 23 **P.O.** # 08-050WO-L

FAX: 513-353-4664 PROJECT # 500-017-012 Hooven VI 2008-2009

DATE RECEIVED: 10/07/2009 CONTACT: Bryanna Langley **DATE COMPLETED:** 10/16/2009

FRACTION# NAME TEST VAC./P	PRESSURE
16A VW99(60)100209 Modified ASTM D-1946 4.0 "	Hg 15 psi
17A TB-1, 100209 Modified ASTM D-1946 27.0	'Hg 15 psi
18A Lab Blank Modified ASTM D-1946 NA	NA NA
18B Lab Blank Modified ASTM D-1946 NA	NA NA
19A LCS Modified ASTM D-1946 NA	A NA

CERTIFIED BY:

Sinda S. Fruman

DATE: 10/16/09

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ETNIAT

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE Modified ASTM D-1946 Trihydro Corporation Workorder# 0910198B

Seventeen 1 Liter Summa Canister (100% Certified) samples were received on October 07, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.



Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The trip blank sample TB-1, 100209 has a reportable level of Oxygen present. Reanalysis confirmed the initial result.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Client Sample ID: VW99(5A)100209

Lab ID#: 0910198B-01A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	4.9
Nitrogen	0.23	89
Methane	0.00023	0.70
Carbon Dioxide	0.023	5.4

Client Sample ID: VW99(10)100209

Lab ID#: 0910198B-02A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.22	7.2
Nitrogen	0.22	86
Methane	0.00022	0.63
Carbon Dioxide	0.022	5.8

Client Sample ID: VW99(10)100209 Lab Duplicate

Lab ID#: 0910198B-02AA

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.22	7.1
Nitrogen	0.22	86
Methane	0.00022	0.63
Carbon Dioxide	0.022	5.7

Client Sample ID: VW99(15)100209

Lab ID#: 0910198B-03A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	1.8
Nitrogen	0.23	82
Methane	0.00023	5.9
Carbon Dioxide	0.023	10

Client Sample ID: VW99(20)100209

Lab ID#: 0910198B-04A



Client Sample ID: VW99(20)100209

Lab ID#: 0910198B-04A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.23	1.7	
Nitrogen	0.23	78	
Methane	0.00023	8.5	
Carbon Dioxide	0.023	11	
Ethane	0.0023	0.0026	

Client Sample ID: VW99(25)100209

Lab ID#: 0910198B-05A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	1.8
Nitrogen	0.23	82
Methane	0.00023	5.4
Carbon Dioxide	0.023	11

Client Sample ID: VW99(30)100209

Lab ID#: 0910198B-06A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.24	2.1	
Nitrogen	0.24	78	
Methane	0.00024	8.8	
Carbon Dioxide	0.024	11	
Ethane	0.0024	0.0026	

Client Sample ID: VW99(35)100209

Lab ID#: 0910198B-07A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.22	1.6	
Nitrogen	0.22	76	
Methane	0.00022	11	
Carbon Dioxide	0.022	11	
Ethane	0.0022	0.0034	



Client Sample ID: VW99(40)100209

Lab ID#: 0910198B-08A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.24	1.7	
Nitrogen	0.24	76	
Methane	0.00024	11	
Carbon Dioxide	0.024	11	
Ethane	0.0024	0.0035	

Client Sample ID: VW99(45)100209

Lab ID#: 0910198B-09A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.23	1.8
Nitrogen	0.23	76
Methane	0.00023	11
Carbon Dioxide	0.023	11
Ethane	0.0023	0.0034

Client Sample ID: BD1100209

Lab ID#: 0910198B-10A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.25	1.8
Nitrogen	0.25	77
Methane	0.00025	9.2
Carbon Dioxide	0.025	12
Ethane	0.0025	0.0027

Client Sample ID: VW96(50)100209

Lab ID#: 0910198B-11A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.23	2.3
Nitrogen	0.23	68
Methane	0.00023	19
Carbon Dioxide	0.023	10
Ethane	0.0023	0.0095



Client Sample ID: VW96(55)100209

Lab ID#: 0910198B-12A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.23	1.4	
Nitrogen	0.23	67	
Methane	0.00023	20	
Carbon Dioxide	0.023	11	
Ethane	0.0023	0.0099	

Client Sample ID: VW96(60)100209

Lab ID#: 0910198B-13A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.23	1.1	
Nitrogen	0.23	67	
Methane	0.00023	20	
Carbon Dioxide	0.023	11	
Ethane	0.0023	0.0096	

Client Sample ID: VW99(50)100209

Lab ID#: 0910198B-14A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.22	2.3
Nitrogen	0.22	77
Methane	0.00022	10
Carbon Dioxide	0.022	10
Ethane	0.0022	0.0039

Client Sample ID: VW99(55)100209

Lab ID#: 0910198B-15A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.24	2.1
Nitrogen	0.24	75
Methane	0.00024	11
Carbon Dioxide	0.024	11
Ethane	0.0024	0.0038



Client Sample ID: VW99(55)100209 Lab Duplicate

Lab ID#: 0910198B-15AA

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.24	2.1
Nitrogen	0.24	75
Methane	0.00024	11
Carbon Dioxide	0.024	11
Ethane	0.0024	0.0037

Client Sample ID: VW99(60)100209

Lab ID#: 0910198B-16A

	Rpt. Limit	Amount (%)
Compound	(%)	
Oxygen	0.23	4.8
Nitrogen	0.23	86
Methane	0.00023	1.0
Carbon Dioxide	0.023	8.0

Client Sample ID: TB-1, 100209

Lab ID#: 0910198B-17A

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.10	0.17	
Nitrogen	0.10	100	



Client Sample ID: VW99(5A)100209 Lab ID#: 0910198B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101429 2.33	Date of Collection: 10/2/09 2:45:00 PM Date of Analysis: 10/14/09 07:41 PM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	4.9
Nitrogen		0.23	89
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	0.70
Carbon Dioxide		0.023	5.4
Ethane		0.0023	Not Detected
Ethene		0.0023	Not Detected
Helium		0.12	Not Detected



Client Sample ID: VW99(10)100209 Lab ID#: 0910198B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101426 2.24	Date of Collection: 10/2/09 4:25:00 PM Date of Analysis: 10/14/09 06:35 PM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.22	7.2
Nitrogen		0.22	86
Carbon Monoxide		0.022	Not Detected
Methane		0.00022	0.63
Carbon Dioxide		0.022	5.8
Ethane		0.0022	Not Detected
Ethene		0.0022	Not Detected
Helium		0.11	Not Detected



Client Sample ID: VW99(10)100209 Lab Duplicate

Lab ID#: 0910198B-02AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101427 2.24	Date of Collection: 10/2/09 4:25:00 PM Date of Analysis: 10/14/09 06:56 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.22	7.1
Nitrogen		0.22	86
Carbon Monoxide		0.022	Not Detected
Methane		0.00022	0.63
Carbon Dioxide		0.022	5.7
Ethane		0.0022	Not Detected
Ethene		0.0022	Not Detected
Helium		0.11	Not Detected



Client Sample ID: VW99(15)100209 Lab ID#: 0910198B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101428 2.33	Date of Collection: 10/2/09 3:57:00 PM Date of Analysis: 10/14/09 07:20 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	1.8
Nitrogen		0.23	82
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	5.9
Carbon Dioxide		0.023	10
Ethane		0.0023	Not Detected
Ethene		0.0023	Not Detected

0.12

Not Detected



Client Sample ID: VW99(20)100209 Lab ID#: 0910198B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101430 2.33	Date of Collection: 10/2/09 3:30:00 PM Date of Analysis: 10/14/09 08:02 PM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	1.7
Nitrogen		0.23	78
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	8.5
Carbon Dioxide		0.023	11
Ethane		0.0023	0.0026
Ethene		0.0023	Not Detected
Helium		0.12	Not Detected



Client Sample ID: VW99(25)100209 Lab ID#: 0910198B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101431 2.29	Date of Collection: 10/2/09 2:57:00 PM Date of Analysis: 10/14/09 08:24 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	1.8
Nitrogen		0.23	82
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	5.4
Carbon Dioxide		0.023	11
Ethane		0.0023	Not Detected
Ethene		0.0023	Not Detected

0.11

Not Detected



Client Sample ID: VW99(30)100209 Lab ID#: 0910198B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101432 2.42	Date of Collection: 10/2/09 2:20:00 PM Date of Analysis: 10/14/09 09:12 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	2.1
Nitrogen		0.24	78
Carbon Monoxide		0.024	Not Detected
Methane		0.00024	8.8
Carbon Dioxide		0.024	11
Ethane		0.0024	0.0026
Ethene		0.0024	Not Detected

0.12

Not Detected

Ethene

Helium



Client Sample ID: VW99(35)100209 Lab ID#: 0910198B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101433 2.24		ection: 10/2/09 2:38:00 PM ysis: 10/14/09 09:49 PM
	Rpt. Limit (%)	<u>.</u>	Amount (%)
Oxygen		0.22	1.6
Nitrogen		0.22	76
Carbon Monoxide		0.022	Not Detected
Methane		0.00022	11
Carbon Dioxide		0.022	11
Ethane		0.0022	0.0034

0.0022

0.11

Not Detected

Not Detected

Ethene

Helium



Client Sample ID: VW99(40)100209 Lab ID#: 0910198B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101434 2.38	Date of Collection: 10/2/09 1:14:00 PM Date of Analysis: 10/14/09 10:11 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	1.7
Nitrogen		0.24	76
Carbon Monoxide		0.024	Not Detected
Methane		0.00024	11
Carbon Dioxide		0.024	11
Ethane		0.0024	0.0035

0.0024

0.12

Not Detected

Not Detected

Ethane

Ethene

Helium



Client Sample ID: VW99(45)100209 Lab ID#: 0910198B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101435 2.33		llection: 10/2/09 12:38:00 PM alysis: 10/14/09 10:51 PM
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen		0.23	1.8
Nitrogen		0.23	76
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	11
Carbon Dioxide		0.023	11

0.0023

0.0023

0.12

0.0034

Not Detected

Not Detected



Client Sample ID: BD1100209 Lab ID#: 0910198B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101436 2.52	Date of Collection: 10/2/09 Date of Analysis: 10/14/09 11:44 PM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.25	1.8
Nitrogen		0.25	77
Carbon Monoxide		0.025	Not Detected
Methane		0.00025	9.2
Carbon Dioxide		0.025	12
Ethane		0.0025	0.0027
Ethene		0.0025	Not Detected
Helium		0.13	Not Detected

Ethene

Helium



Client Sample ID: VW96(50)100209 Lab ID#: 0910198B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101437 2.29	Date of Collection: 10/2/09 11:55:00 AM Date of Analysis: 10/15/09 07:13 AM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	2.3
Nitrogen		0.23	68
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	19
Carbon Dioxide		0.023	10
Ethane		0.0023	0.0095

0.0023

0.11

Not Detected

Not Detected



Client Sample ID: VW96(55)100209 Lab ID#: 0910198B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101438 2.29	Date of Collection: 10/2/09 11:05:00 AM Date of Analysis: 10/15/09 07:37 AM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	1.4
Nitrogen		0.23	67
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	20
Carbon Dioxide		0.023	11
Ethane		0.0023	0.0099
Ethene		0.0023	Not Detected

0.11

Not Detected



Client Sample ID: VW96(60)100209 Lab ID#: 0910198B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor: Compound	9101439 2.29	Date of Collection: 10/2/09 12:48:00 PM Date of Analysis: 10/15/09 08:04 AM	
		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	1.1
Nitrogen		0.23	67
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	20
Carbon Dioxide		0.023	11
Ethane		0.0023	0.0096
Ethene		0.0023	Not Detected

0.11

Not Detected



Client Sample ID: VW99(50)100209 Lab ID#: 0910198B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101440 2.24	Date of Collection: 10/2/09 11:08:00 AM Date of Analysis: 10/15/09 08:27 AM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.22	2.3
Nitrogen		0.22	77
Carbon Monoxide		0.022	Not Detected
Methane		0.00022	10
Carbon Dioxide		0.022	10
Ethane		0.0022	0.0039
Ethene		0.0022	Not Detected

0.11

Not Detected



Client Sample ID: VW99(55)100209 Lab ID#: 0910198B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101441 2.42		ection: 10/2/09 11:36:00 AM ysis: 10/15/09 08:52 AM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	2.1
Nitrogen		0.24	75
Carbon Monoxide		0.024	Not Detected
Methane		0.00024	11
Carbon Dioxide		0.024	11
Ethane		0.0024	0.0038
Ethene		0.0024	Not Detected
Helium		0.12	Not Detected



Client Sample ID: VW99(55)100209 Lab Duplicate

Lab ID#: 0910198B-15AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9101445	Date of Colle	ection: 10/2/09 11:36:00 AM	
Dil. Factor:	2.42	Date of Anal	Date of Analysis: 10/15/09 10:24 AM	
		Rpt. Limit	Amount	
Compound		(%)	(%)	
Oxygen		0.24	2.1	
Nitrogen		0.24	75	
Carbon Monoxide		0.024	Not Detected	
Methane		0.00024	11	
Carbon Dioxide		0.024	11	
Ethane		0.0024	0.0037	
Ethene		0.0024	Not Detected	
Helium		0.12	Not Detected	



Client Sample ID: VW99(60)100209 Lab ID#: 0910198B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101442 2.33		ection: 10/2/09 12:05:00 PM lysis: 10/15/09 09:16 AM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	4.8
Nitrogen		0.23	86
Carbon Monoxide		0.023	Not Detected
Methane		0.00023	1.0
Carbon Dioxide		0.023	8.0
Ethane		0.0023	Not Detected
Ethene		0.0023	Not Detected

0.12

Not Detected



Client Sample ID: TB-1, 100209 Lab ID#: 0910198B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101444 1.00		Date of Collection: 10/2/09 Date of Analysis: 10/15/09 10:02 AM	
Compound		Rpt. Limit (%)	Amount (%)	
Oxygen		0.10	0.17	
Nitrogen		0.10	100	
Carbon Monoxide		0.010	Not Detected	
Methane		0.00010	Not Detected	
Carbon Dioxide		0.010	Not Detected	
Ethane		0.0010	Not Detected	
Ethene		0.0010	Not Detected	
Helium		0.050	Not Detected	



Client Sample ID: Lab Blank Lab ID#: 0910198B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9101421 1.00	Date of Colle Date of Analy	ction: NA ysis: 10/14/09 04:45 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Nitrogen		0.10	Not Detected
Carbon Monoxide		0.010	Not Detected
Methane		0.00010	Not Detected
Carbon Dioxide		0.010	Not Detected
Ethane		0.0010	Not Detected
Ethene		0.0010	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank Lab ID#: 0910198B-18B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9101420b	Date of Collect	ction: NA
Dil. Factor:	1.00	Date of Analy	sis: 10/14/09 04:22 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.050	Not Detecte

Container Type: NA - Not Applicable



Client Sample ID: LCS Lab ID#: 0910198B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9101446	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/15/09 10:49 AM

Compound	%Recovery
Oxygen	102
Nitrogen	102
Carbon Monoxide	105
Methane	102
Carbon Dioxide	103
Ethane	101
Ethene	101
Helium	103

Container Type: NA - Not Applicable